10/524720



Aidnar application No.

PCT/JP03/10498

	SIFICATION OF SUBJECT MATTER C1 H01M8/02, H01M8/10				
According t	to International Patent Classification (IPC) or to both na	ational classification and IPC			
B. FIELDS SEARCHED					
Minimum d Int.	ocumentation searched (classification system followed C1 H01M8/02, H01M8/10	by classification symbols)			
Jitsı Koka:	tion searched other than minimum documentation to the Layo Shinan Koho 1922–1996 i Jitsuyo Shinan Koho 1971–2003 lata base consulted during the international search (name	Toroku Jitsuyo Shinan Koh Jitsuyo Shinan Toroku Koh	o 1994–2003 o 1996–2003		
WPI/		e of data dase and, where practicable, sea	en tems useu)		
C. DOCU	MENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.		
X Y	JP 2002-25571 A (Nisshinbo I 25 January, 2002 (25.01.02), Claims; Par. Nos. [0019] to (Family: none)		1-4 5		
Y	JP 2002-198062 A (Aisin Seik 12 July, 2002 (12.07.02), Claims; Fig. 1 (Family: none)	i Co., Ltd.),	5		
X Y	JP 8-31231 A (Shin-Etsu Poly 02 February, 1996 (02.02.96), Claims; Par. Nos. [0006], [00 (Family: none)	,	6 7-8		
S Prost	and a surrous and listed in the continuation of Paul C	Connect family annay			
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed		See patent family annex. "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international search report 14 October, 2003 (14.10.03)			
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer			
Facsimile No.		Telephone No.			

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	JP 2002-100377 A (Kawasaki Steel Corp.), 05 April, 2002 (05.04.02), Claims; Par. No. [0015] (Family: none)	7-8
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Box I Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows: As described on (extra sheet), there must exist a special technical feature so linking a group of inventions of claims as to form a single general inventive concept in order that the group of inventions may satisfy the requirement of unity of invention. The international application contains two inventions: the inventions of claims 1-5, and the invention of claims 6-8.
 As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. X all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

Continuation of Box No. II of continuation of first sheet (1)

There must exist a special technical feature so linking a group of inventions of claims as to form a single general inventive concept in order that the group of inventions may satisfy the requirement of unity of invention. The group of inventions of claims 1-5 are linked only by the technical feature "a separator for fuel cells made of a mixture material of a thermoplastic resin selected from ethylene-vinyl acetate copolymers and ethylene-ethyl acrylate copolymers and carbon particles selected from at least one of Ketjenblack, graphite, and acetylene black". The group of inventions of claims 6-8 are linked only by the technical feature "a separator for fuel cells made of a mixture material containing polyphenyl sulfide, graphite, and Ketjenblack".

The invention of claims 1-5 and the invention of claims 6-8 are not so linked as to form a single general inventive concept.

Therefore, the international application is considered to contain two inventions: the invention of claims 1-5 and the invention of claims 6-8.